

Build an Astronaut Base – The Moon

Lunar Base Analysis Worksheet

On a separate sheet of paper, write a report to answer all of the following questions about your Lunar Base prototype and the process that you used to test it.

1. What problem/challenge/hazard did your group address in building your prototype?
2. What possible plans did your group come up with in the brainstorming process for solving this problem?
3. Why did your group choose the plan that you chose?
4. Specifically, how was your plan supposed to solve the problem?
5. What materials did you use for your prototype? Why did you choose those materials?
6. What challenges did you face in building your prototype?
7. Describe the experiment that you set up in order to test your prototype.
8. Specifically, how did your experiment simulate a lunar environment?
9. What were the results of your test? Was your prototype successful? Somewhat successful? Unsuccessful? Explain.
10. What are the strengths and weaknesses of your prototype design?
11. Do you think that astronauts would be safe if they lived on the Moon in a larger version of your prototype? Why or why not?
12. What resources do you wish you had in order to build a better prototype and perform a better test on that prototype? Explain.
13. If NASA decided to use your prototype as the model for building a real lunar astronaut base, what advice would you give them?